

Galvanic Apparatus

STANLEY COX LTD

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IONIC MEDICATION.

IONIC Medication has until recently been somewhat neglected, owing to the introduction of newer methods of treatment, such as diathermy and artificial sunlight. It is, however one of the earliest discoveries in Electro Therapeutics and its efficacy remains unchallenged as a method of introducing drugs into the tissues. In no other way is it possible to administer drugs so efficiently or with such little discomfort to the patient. Moreover, drugs so administered enter the body in the ionic, or most active state, an effect it is impossible to produce in any other way.

Besides this property of being able to carry chemical substances through the body walls, the direct current has many other uses. It will exert a tonic or sedative action on nerves, according to the direction in which it is made to travel through the body ; it will reduce muscle spasm in sprains and fractures, diminish the swelling and add materially to the comfort of the injured patient. The direct current is undoubtedly one of the most potent forces known to the therapist.

Until recently there have been difficulties associated with the administration of these treatments. The apparatus hitherto available has not been designed either for convenience or efficiency. Messrs. Stanley Cox Ltd. have endeavoured to overcome the disadvantages of the old apparatus, and at the same time to introduce a number of new features.

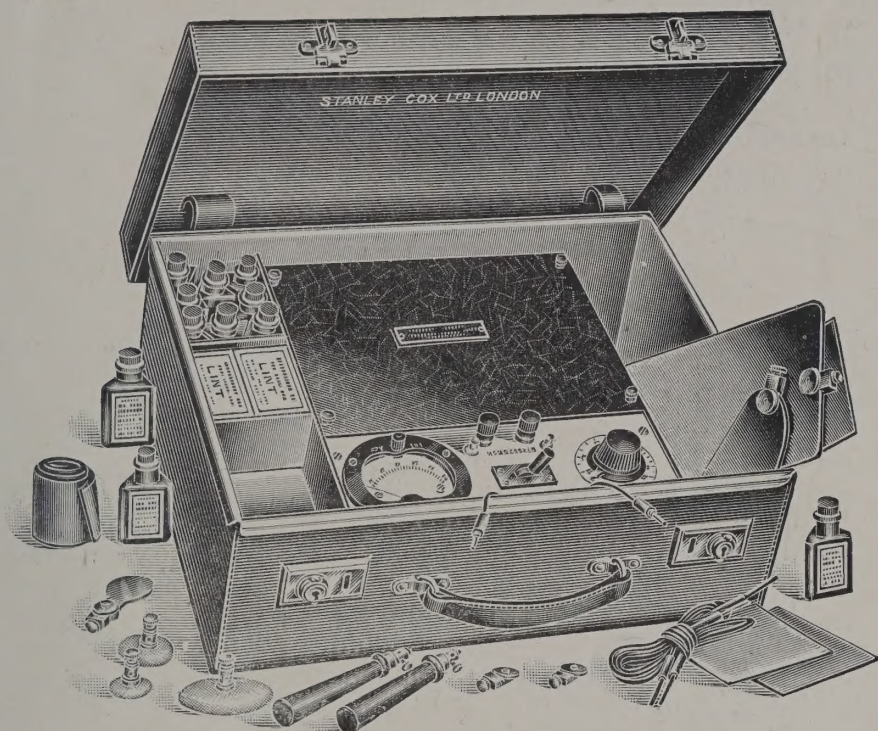


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“ THE MEDELECT ”

(Reg. Trade Mark)

PORTABLE IONISATION APPARATUS



Reg. No. 716036.

This, as the illustration shows, is contained in a leather attache case, which, when closed is of perfectly normal appearance.

The control of current is perfectly smooth and continuous, which is a great improvement over the older method of adjustment by steps, which incidentally momentarily short circuited each cell as the selector arm moved across the studs. The battery is uniformly discharged in all cells instead of only a few cells doing most of the work.

The flush-type meter, which has been specially designed for the MEDELECT apparatus, has three ranges, viz. :—

0.5 Milliampères. 0.50 Milliampères. 0.50 Volts.

The latter range is brought into action by means of a small switch inside the meter itself and enables the operator to check the voltage of the battery, even during the course of a treatment.

In the event of an accidental short circuit, it is impossible to damage the meter, as it is provided with a replaceable fuse. The wires leading to the patient cannot be wrongly connected, for when the reversing switch is moved, the polarity marking of the terminals is automatically changed at the same time. This is an entirely new feature and is exclusive to our apparatus.

In order to obviate the trouble and mess of preparing standard solutions for ionic medication, a supply of drugs is packed in 'Tabloid' form, each tabloid when dissolved in 1 oz. of distilled water forming a 1% solution. The drugs supplied are eight in number and any selection from the following will be included in the standard charge :—

- | | |
|----------------------|----------------------|
| *Copper Sulphate. | *Lithium Sulphate. |
| *Magnesium Sulphate. | Mercury Succinimide. |
| *Potassium Iodide. | *Quinine Bisulphate. |
| *Sodium Chloride. | *Sodium Salicylate. |
| *Zinc Sulphate. | |

**Those marked with an asterisk are supplied unless we are requested to the contrary.*

Some workers may prefer to have two or three bottles of the chemicals they use most frequently, and it is in realisation of this that we are willing to supply special selections.

Messrs. Burroughs, Wellcome & Co. also prepare Cocaine Hydrochloride for ionic medication packed in our standard packing, which can be supplied against a written order from a qualified practitioner. This drug is of great value for the production of local anæsthesia.

Two packets of compressed lint, and an assortment of electrodes and bandages are included in the outfit, which also affords space for carrying other articles.

For those who only require to use the apparatus where direct current mains are available, we have designed a potential-reducing attachment which is interchangeable with the battery of the "MEDELECT" Apparatus. This is of advantage and economy for use in clinics, hospitals, patients' homes, etc. where the apparatus does not need to be moved about.

This attachment, which is supplied either as an alternative to the battery or as a separate fitting, may be placed in position in two minutes. It includes our spring cord arrangement, so that there is no loose wire to become tangled and kinked. The potential-reducing resistances are of high-grade resistance wire embedded in vitreous material and are therefore practically unbreakable. This is a great improvement over the old fragile resistance lamps, which although satisfactory when treated carefully, frequently broke when the apparatus was carried by car. If the plug or adapter which connects the apparatus to the mains is wrongly connected the milliammeter will read backwards, indicating immediately that the plug must be reversed.

The total weight of the apparatus, with all accessories is—

The "Medelect" Apparatus, with 45-volt Battery...18 lbs.
" " " mains attachment...12 lbs.

The handle of the case is of leather and of large size, so that it does not cut the hand like the metal handles of the older galvanic batteries.

The whole of the case is lined with polished aluminium sheet, the edges of which are folded over the top of the leather, so that the apparatus can be thoroughly cleaned with a damp cloth. The control panel, which is of white ivory finish is at the front of the case in the middle, and all switches, resistances, etc., are mounted out of sight beneath it. The meter, switches and terminals are all black, so that there is no brass or nickel to keep polished.

The arrangement of the panel is clearly shown in Fig. 2.

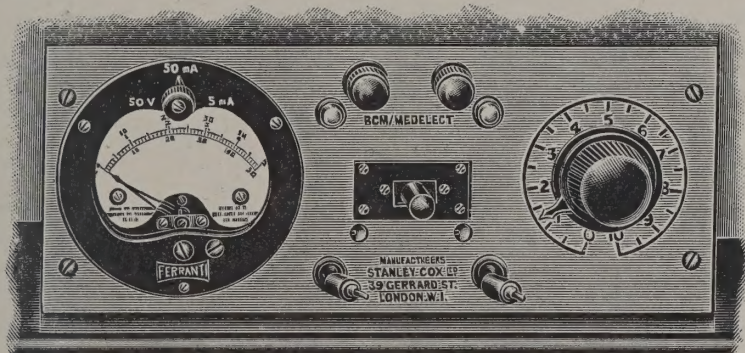


Fig. 2.

The meter is on the left and in the corresponding position on the right is the current-control rheostat, with pointer moving over a graduated scale. In the centre is the self-indicating reversing switch, below it the ends of the spring cords (to which further reference is made below), and above it are two insulated terminals.

Immediately above the control panel is the battery compartment, which is covered by a detachable metal plate of pleasing black frosted finish, containing a large capacity 45-volt battery of block construction. Two wires only are connected to it and pass direct to the switch-panel.

There are no loose connecting wires with this apparatus as two spring drums are fitted beneath the panel, and as much wire as may be required can be pulled out and wound up again out of sight after the treatment is over.

Specification of Apparatus

“Medelect” Apparatus as described above, complete with

45-volt Battery

1 flat metal Electrode 8ins. x 6ins.

2 „ „ 4ins. x 3ins.

1 kidney „ 8ins. x 4ins.

1 Eye Electrode, etc., etc.

1 Set of 8 bottles assorted Drugs.

2 packets compressed Lint.

Cat. No. **L18a** Complete £15 : 15 : 0 (b)

“Medelect” Apparatus as detailed above,
but with mains attachment instead of
Battery.

Cat. No. **L18b** £16 : 16 : 0 (b)

Mains Attachment only:

Cat. No. **L18c** £3 : 3 : 0 (b)

Cat. No. **L18e** Replacement Battery: £1 : 15 : 0 (b)

POSTAGE 1/3.

STANLEY COX LTD.

The "Attache" Dry Cell Galvanic Battery

(Registered Design)



Reg. No. 716036.

The "Attache" Galvanic Battery has many advantages over the old type of dry cell battery with its heavy wood case.

The principal features are the weight of the "Attache" Galvanic Battery is only 12 lbs., and the life of the dry cell is considerably longer than that of the old type. The dry cells employed are specially constructed and are of the "block" type having the advantage of being very easily replaced. There are 32 cells connected in series and sealed in Bitumen. There are only two connections to be made.

The current is controlled by means of a potentiometer which has a resistance of 5000 ohms., and which permits perfectly smooth graduation from zero to the maximum amount of current required. This is a great advantage over the old type of battery with cell selecting studs which increase the current in small jerks.

The Galvanometer registers 0 to 5 milliamps and is fitted with a short switch to increase the range to 50 or 500 milliamps.

The Potentiometer control, reversing switch and milliamp meter are mounted on a polished Paxoline panel.

The carrying case is constructed in solid, best quality cowhide, and is fitted with patent safety catches and a lock and key. Included with the battery are :—

- 1 pair of Superflex Cables.
- 3 disc Electrodes.
- 1 handle for supporting discs.
- 1 plate Electrode.

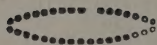
Cat. No.

L11a

Price complete £12 : 12 : 0 (b)

Replacement block of 32 best quality dry cells

£1 : 15 : 0 (d)



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